

ABSTRACT

The invention provides a combustion apparatus which can inhibit an NO_x generation even in the case of promoting a mixing between a high-temperature combustion gas and an air so as to intend to reduce an unburned combustible. In a combustion apparatus provided with a burner burning a fuel within a furnace in a theoretical air ratio or less, and an air port supplying a combustion air for a shortfall in the burner, a supply apparatus for supplying a nitrogen oxide generation inhibiting gas is provided in a mixing region between the both or near the mixing region. Further, the invention provides a wind box which can inhibit an NO_x generation even in the case of promoting a mixing between a high-temperature combustion gas and an air so as to intend to reduce an unburned combustible. In a wind box having an air port arranged in a back flow side of the burner and supplying a combustion air for a shortfall in the burner, a supply apparatus for supplying a nitrogen oxide generation inhibiting gas is provided in a mixing region between the both or near the mixing region.